LYUYEV, Andrey Ivanovich; SOLOV'YEV, P.M., otv. red.; VINOGRADOVA, G.V., red.; PROZOROVSKAYA, V.L., tekhn. red.

[Manual on safety engineering for miners] Posobie po tekhnike bezopasnosti dlia shakhterov. Moskva, Gos. nauchno-tekhn. izd-vo
lit-ry po gornomu delu, 1961. 86 p. (MIRA 14:6)
(Coal mines and mining—Safety measures)

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

KILYACHKOV, Anatoliy Petrovich; VOSTROV, I.D., otvetstvennyy redaktor; SHUSHKOVSKAYA, Ye.L., redaktor izdatel'stva; VIHOCRADOVA, G.V., redaktor izdatel'stva; ZAZUL'SKAYA, V.F., tekhnicheskiy redaktor

[Opening and systems of working coal deposits] Vakrytie i sistemy rasrabotki ugol*nykh mestorozhdenii. Moskva, Ugletekhizdat, 1957.
391 p.

(Coal mines and mining)

VOROB!YEV, Boris Mikhaylovich, BOBYLEV, Aleksandr Petrovich, KILYACHKOV, A.P.
otv,rod.; SHUSHKOVSKAYA, Ye,L. red.; VIEOGRADOVA, G.V., red.;
otv,rod.; SHUSHKOVSKAYA, Tenledorev, A.M., red.
IL! HISKAYA, G.M., tekhn.red.; TERPHODEV, A.M., red.
[Fundamentals of mining] Osnovy gornogo dela. Pod obshchei red.
A.M. Terpigoreva. Moskva, Ugletekhizdat, 1958. 320 p. (MIRA 11:9)
(Mining geology)
(Mining engineering)

PROONIMAK, Dmitriy Yakovlevich; KUKLIN, Boris Konstantinovich; SHUSHKOV-SKAYA, Ye.L., redaktor izdatel'stva; VINOGRADOVA. G.V., redaktor izdatel'stva; IL'INSKAYA, G.M., tekhnicheskiy redaktor

[Working Donets Basin coal beds through inclined winses to lateral or group drifts] Opyt razrabotki ugol'nykh plastov Donbassa cherez naklonnye gezenki na polevye ili gruppovye shtreki. Moskva, Ugle-(MLRA 9:10) tekhizdat, 1956. 38 p.

(Donots Basin -- Goal mines and mining)

CIA-RDP86-00513R001859920018-8" APPROVED FOR RELEASE: 09/01/2001

GRIHER, Alekeandr Semenovich; GELESKUL, Mikhail Nikitich; SHUSHKOVSKAYA,
Ye.L., redaktor izdatel'stva; YINGGRADOVA, G.V., redaktor izdatel'stva; SABITOV, A., tekhnicheskiy redaktor

[Engineering essentials for beginning miners] Tekhminimum dlia
nachinaiushchikh rabotat' na shakhte. Moskva, Ugletekhizdat, 1956.

(MLR: 9:9)

(Coal mines and mining)

e)/EWT(m)/EWP(1/17) /EWP(m)/EWP(b) TO(0) FIN 191 SOURCE CODE: UR/0363/65/001/011/1889/1891 First August ACC NRI Vinogradova, G. Z. Zorina, Ye. L.; Dembovskiy, S. A.; Velichkova, B.; AUTHOR: ORG: Institute of General and Inorganic Chemistry im. N. S. Kurnakov, Academy of Sciences, SSSR (Institut obshchey i neorganicheskoy khimii Akademii nauk SSSR) TITLE: Infrared absorption of As2Se3, As2Se5, and AsSe4 in the glassy state SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 11, 1965, 1889-TOPIC TAGS: arsenic, selenide; glassy state, IR spectrum, absorption spectrum ABSTRACT: A study has been made of the IR absorption of glassy As2Se3, Ab2Se5, and AsSe4 in the 0.67--25 μ region with the IKS-14 spectrophotometer. The absorption spectra of the above selenides in the glassy state were shown to have a weak 15.6 μ band, which was ascribed to impurities, and a strong 20.9 µ band, due to selenium. In addition, AsSe4 has a 12.7 p band, due to As203. No fundamental absorption bands were observed in the region studied. The absorption and reflection coefficients, and the refractive indexes at the edge absorption band for glassy As2Se3, As2Se5, and AsSe4 were determined. Orig. art. has: 1 figure and 1 table. SUB CODE: IC/ SUBM DATE: 22Jun65/ ORIG REF: 009/ OTH REF: 003/ ATD PRESS:4/4/ UDC: 546.19'23:543.422.4 01012.106

。2. 1年度期间指挥性性的相關性的性格。如此,如此中心不

DEMBROVSKIY, S.A.; VINOCPADOVA, G.Z.; PASHIRKIN, A.S.

Crystallization of glasses of the Se - Ge system. Zhur, nearg. (MIRA 18:2)

khim. 10 no.7:1657-1659 J1 '65.

"APPROVED FOR RELEASE: 09/01/2001 CIA-RD

CIA-RDP86-00513R001859920018-8

AUTHOR: Dembovskiy, S. A.; Vinogradova, G. Z.; Pastinkin, A. S.

TITLE: Crystallization of glasses in the Se-Ce system

SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 7, 1965, 1657-1659

TOPIC TAGS: selenium germanium system, glass crystallization, phase diagram, glass formation, germanium diselenide

ABSTRACT: The part of the Se—Ge system in the 75 to 100 at% Se composition range has been studied by DTA and x-ray structural analysis to refine the region of glass formation in the phase diagram previously studied (Liu Ch'un-Hua, A. S. Pashinkin, and A. V. Novoselova. Doki. AN SSSR, 146, 1092, 1962) and to correlate the crystallizability of glasses in this region with the corresponding phase diagram. Glass samples were synthesized by a known method 1. A. Ayo, V. F. Kororina. Aptiko-mekh promyshlennosi, nd +, i., 1971 and heat treated at 15 to 140 for a Barria postallization of promyshlennosis.

Card 1/2

L 57779-65

ACCESSION NR: AP5018247

in the composition containing 8 at% Ge. This observation was confirmed by x-ray patterns and by comparing the Tamman triangles to the only libes effects, and eman contrations to the contration of the contra tally have been gameses be reason in the approximation of the agree of the composition range to the point occessioners to made who loss composition was attributed to a wife tic analogous to those in the Se-ns , e and some other systems. The partial phase diagram of the semine enter shows the extent point at an in . and thus in emates must a german on several size of superior peaks between the control of a superpatterns in a mpositions over 10 at% #. The glass of entertic composition and be completely erystallized, unlike the analogous composition in the Se-As Se system order to say a figures.

ASSOCIATION: none

SUBMITTED: 02Mar64

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OTHER: 1000

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Card 2/2

VINOGRADOVA, G.Z.; DEMBOVSKIY, S.A.

Vitrification region in the system S - As. Izv. AN SSSR.
Neorg. mat. 1 no.10:1838-1844 0 '65. (MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR. Submitted June 3, 1965.

ZORINA, Ye.L.; DEMBOVSKIY, S.A.; VELICHKOVA, V.B.; VINOGRADOVA, G.Z.

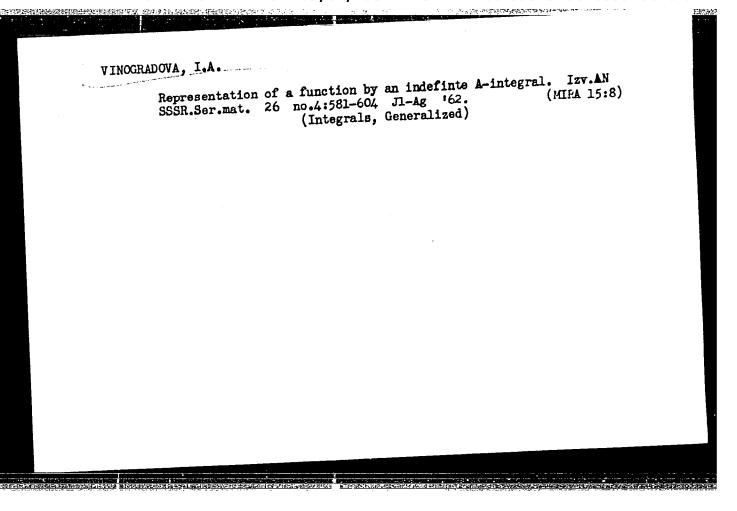
Infrared absorption of vitrous As₂Se₃, As₂Se₅, and As₅e₄.

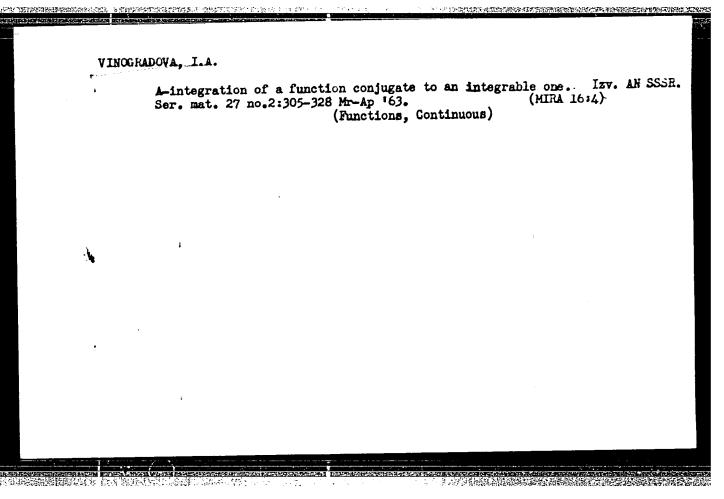
Izv. AN SSSR. Neorg. mat. 1 no.11:1889-1891 N '65.

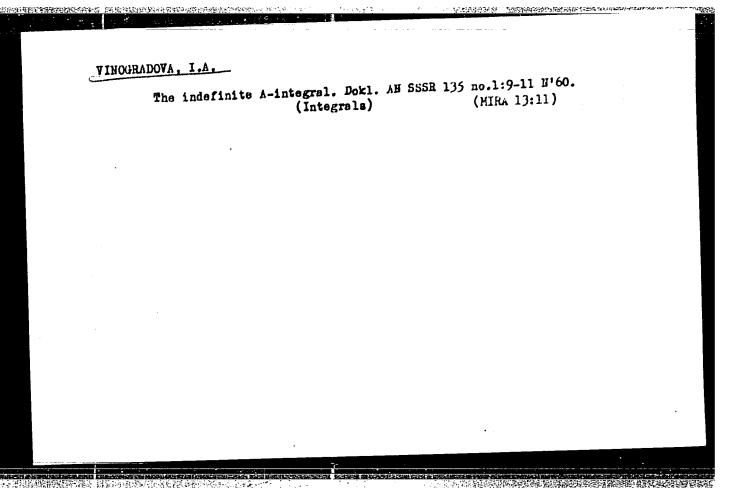
(MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR. Submitted June 22, 1965.

of the	Fifth annual conference of young scientists dedicated to the 77th anniversal of the birth of Academician Hikolai Nilovich Burdenko. Vop.neirokhir. 17 (MIRA 6:11) no.5:62-63 S-0 '53. (Nervous system)				
no.5:0	2-03 0-0 33.		(Ne	LAONE SARrem)	







VINOGRADOVA, I.A.

The indefinite A-integral. Izv. AN SSSR. Ser. mat. 27 no.4:
(MIRA 16:8)
761-776 Jl-Ag '63.

(Integrals)

却介 84653 s/020/60/135/001/001/030 c111/C222 16.2800 AUTHOR: Vinogradova, 1.A. On the Indefinite A - Integral 10 Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 1 pp. 9 - 11 TITLE: PERIODICAL: f(x) is called A - integrable on [a,b] if $\mathbf{z} \in \left\{x, x \in \left[a, b\right], \mid f(x) \mid > n\right\} = O\left(\frac{1}{n}\right)$ (1) and if there exists $\lim_{n\to\infty} \int_{x}^{b} \left[f(x)\right]^{n} dx ,$ $\int_{0}^{b} \left[f(x)\right]^{n} = \begin{cases} f(x) & \text{for } |f(x)| \leq n \\ 0 & \text{for } |f(x)| > n \end{cases} .$ The limit value (2) then is called the definite A - integral of f(x) on [a,b]. Card 1/4

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On the Indefinite A - Integral

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s/020/60/135/001/001/030 C111/C222

It is said that the A - integral contradicts the Denjoy - integral in the point x G[a,b] if f(x) on [a,x] is A- and D- integrable and

(D) $\int_{-\infty}^{\infty} f(t)dt \neq (A) \int_{-\infty}^{\infty} f(t)dt$. It is said that f(x) has an indefinite

A - integral on [a,b] if f(x) on [a,x] is A - integrable for all Theorem 1: There exists a function f(x), $x \in [0,1]$, integrable on [0,1]in the sense of the improper Lebesgue integral and having the indefinite A - integral on [0,1] which is discontinuous in the point x = 1. Theorem 2: There exists a function f(x), x = [0,1] with the following a) f(x) is integrable on [0,1] according to Denjoy and is the strong

b) On [0,1] there exists the definite continuous A - integral

f(t)dt .

Card 2/4

On the Indefinite A - Integral

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c).
$$A(x) \neq D \int_{0}^{x} f(t)dt \quad (x \in P, n P > 0)$$

where A(x) either has not the N-property or has no asymptotic derivative on a set of positive measure or has a derivative almost everywhere which on a set of positive measure is different from f(x). Theorem 3: Let F(x), $x \in [0,1]$ be an arbitrary continuous function, F(0) = 0. Then there exists an f(x) having the indefinite A - integral

 $A(x) = (A) \int_{C}^{x} f(t)dt$ on [0,1], where A(x) = F(x), $x \in [0,1]$, and the

sequence $A_n(x) = (A) \int_0^x [f(t)]^n dt$ on [0,1] converges uniformly to

A(x) for $n\to\infty$.

The author mentions N.N. Luzin, I.I. Privalov, A.N. Kolmogorov, Yu.S. Ochan, P.L. Ul'yanov and A.G. Dzhvarsheyshvili.

Card 3/4

On the Indefinite A - Integral

84653 S/020/60/135/001/001/030 C111/C222

X

There are 10 references: 7 Soviet, 2 Polish and 1 English.

PRESENTED: June 28, 1960, by A.N. Kolmogorov, Academician

SUBMITTED: June 24, 1960

Card 4/4

TO THE PROPERTY OF THE PROPERT

VINOGRADOVA, I. A.

Dissertation defended for the degree of <u>Candidate of Physicomathematical</u> <u>Sciences</u> at the <u>Mathematical Institute imeni V. A. Steklova 1952:</u>

"An Indeterminate A-Integral."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1953, pages 119-145

2000年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,19

VINOGRADOVA, I. A.

"Certain Investigations on the Organization of the Molding Process in the Iron Casting Shops of Serial Type Mills." Cand Tech Sci. Leningrad Polytechnic Inst, Leningrad, 1954. (RZhKhim, No 7, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

VINOGRADOVA, I.D.

Radiosensitivity and embryogenesis of Ascaris summ eggs.
Biofizika 5 no.1:55-59 *60. (MIRA 13:6)

1. Institut biologicheskoy fiziki AW SSSR, Moskva. (ASCARIS radiation eff.)

VINOGRADOVA, I D.

SAF YAHOVA, V.M.; GROKHOVSKAYA, I.M.; BUDAK, A.P.; GAYKO, B.A.; VINOGRADOVA, I.D.; POTOTSKAYA, V.A.

Experiment in treating plants with insecticides to control bloodsucking flies and midges under natural conditions [with English summary in insert]. Zool.zhur. 35 no.9:1335-1341 S '56. (MLRA 9:12)

1. Otdel parazitologii i meditsinskoy zoologii Instituta epidemiologii i mikrobiologii imeni M.F.Gamaleya Akademii meditsinskikh nauk SSSR.

(Diptera) (Insecticides)

Iffert of Radiation on Desynacleoproteins is sites and in sive

Ye I. Speciatess, E. V. Malefrake, G. V. I Bippers

and I. D. Vinegradors

The effect of Confiring radiations on decrynacleoproteins (DNI) was studied both during the irradiation of cells
and during the less child, from the segment of Mineman Journal points, and from the companyant of the confirmation of the confirmation of the studies of the segment of Mineman Journal and Confirmation of the radiation effect the authors used the test described by substantiant of free DNA from the precipitate. It was nucleoprotein complete on incubation with their adaptionships and confirmation of the DNA area. (I) When the precipitate changes in the confirmation of the DNA area. (I) When the confirm

SHEKHTMAN, Ya.L.; VINOGRADOVA, I.D.; MOISEYENKO, Ye.V.

Effect of oxygen on the action of radiation on DNA. Padiobiologiia 4 no.4:473-475 164.

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859920018-8"

VINOGRADOVA, I.E.; KULAGINA, S.S.

Investigation of the structural transformations of surface layers and approximate evaluation of friction temperature. Zav.lab. 28 (MIRA 15:11) no.8:984-986 '62.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

(Metallography) (Mechanical wear)

5/883/62/000/000/016/020 E194/E155

Vinogradova, I.E., Alekseyeva, Ye.A., and Kulagina, S.S.

Temperature methods of assessing the properties of AUTHORS:

TITLE

Metody ispytaniya na iznashivaniye; trudy soveshchaniya, SOURCE:

sostoyavshegosya 7-10 dek. 1960. Ed. by .

M.M. Khrushchov. Moscow, Izd-vo AN SSSR, 1962.

Point-contact friction machine tests are simple and sensitive to the effects of E.P. additives, although information is generally not available about the actual temperatures on the friction surfaces, except in four-ball machine type KT -2 (KT-2), where the rubbing speeds are low and the oil is assessed by the critical temperature at which the oil film breaks down. In conventional four-ball machines the effects are more complicated and it is recommended to assess the contact surface temperature by study of structural changes in the surface layers of the metal. A study was made of the microhardness distribution near the wear scar of sectioned balls from the four-ball machine. The temperature distribution was estimated by interpolation of microhardness Card 1/2

Temperature methods of assessing... S/883/62/000/000/016/020 E194/E155

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results on the tempering curve of the steel in question. differing effects of chlorine- and sulphur-containing additives on the load/temperature characteristics at seizure were determined in this way. Most sulphur additives reduce the temperature of the friction surfaces, whilst chlorine additives prevent welding. Thermographic analysis is a most sensitive procedure for studying physical and chemical processes but has been little used in studying E.P. oil. It was accordingly used to judge of changes in the aggregate state from inflection points on the heating or cooling curves, which correspond to endothermic or exothermic reactions. The results were compared with those obtained in fourball machines. Test results are quoted for a number of sulphurand chlorine-containing additives in oils, both with and without iron powder. It is, of course, necessary to separate the reactions between additives and iron from those corresponding to evaporation or thermal decomposition of the additive. It is desirable to check the reaction between additives and iron up to temperatures above the highest bulk oil temperature and below the seizure temperature i.e. in the range 150 to 250 °C. Card 2/2 There are 8 figures and 2 tables.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859920018-8"

KRAGEL'SKIY, I.V.; VINOGRADOVA, I.E.: SLOBODYANNIKOV, S.S., kandidat tekhnicheskikh nauk; FOFOVA, S.M., tekhnicheskiy redaktor.

[Coefficients of friction; a reference manual] Koeffitsienty treniia; spravochnoe posobie. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 188 p. (MLRA 8:8) (Friction)

A CONTRACTOR OF THE PROPERTY O

ROZENBERG, Yuriy Aleksandrovich; VINOGRADOVA, Irina Ernestovna; LEVINA, Ye.S., vedushchiy red.; VEDOTOVA, I.G., tekhn.red.

[Lubrication of machinery mechanisms; selection and use of lubricating oils] Smarka mekhanizmov mashin; vybor i primenenie masel. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 339 p.

(MIRA 14:2)

(Lubrication and lubricants)

s/081/62/000/005/080/112 B162/B101

11.9700

Vinogradova, I. E., Petyakina, Ye. I., Shames, F. Ya.

AUTHORS:

Antiseizing additives in oils for automobile gears and the

TITLE:

mechanism of their action

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 5, 1962, 527-528, abstract 5M212 (Sb. "Prisadki k maslam i toplivam".
M., Gostoptekhizdat, 1961, 214-223)

TEXT: An examination is made of the usual types of additives to lubricating oils which reduce friction and wear, and the mechanism of their action, Results are given and discussed of tests on a 4-ball friction machine (in nesults are given and discussed of tests on a 4-pair friction machine (in accordance with 100 9490-60 (GOST 9490-60)) using solutions of 22 organic compounds and some combinations of 2 of these compounds in -C-14 (DS-14) oil. The compounds tested included alkyl xanthogenate derivatives (including the additives 3-6/9 (LZ-6/9), 7 -19 (LZ-19), and 7 -23 (LZ-23)), sulfured terpenes, chlorinated hydrocarbons, chloroalkyl phosphinic esters, S-Cl-containing compounds, molybdenum blue (I), and S-P-containing compounds.

Card 1/2

S/081/62/000/005/080/112 B162/B101

Antiseizing additives ...

It is shown that the simultaneous presence in oil of S- and Cl-containing compounds synergetically raises the antiseizing efficiency. With the aim of reducing the increased wear when using oils containing S- and Cl-containing additives at the same time, under moderate operating conditions, it is suggested that a third additive ---11 (DF-11) (Zn-dialkyl dithiophosphate) be added. The high antiseizing efficiency of chloroalkyl phosphinic esters is noted, in particular butyl ester of trichloromethyl phosphinic heid (additive khloref-40) in concentration of 2%, but it is shown that it is unstable at temperatures above 130°C. It is found that I is a more powerful antiseizing additive than MoS₂, and that a combination of I with chlorinated paraffin has a particularly high efficiency. The mechanism of action of I is discussed. 21 references. [Abstracter's note: Complete translation.]

Card 2/2

15.6600

25503

\$/065/61/000/007/004/005

E030/E435

AUTHORS:

Vinogradova, I.E., Alekseyeva, Ye.A.

TITLE:

Thermographic investigation of E.P. (entrance pressure)

additives in oils

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1961, No.7,

pp.56-61

A differential thermocouple system has been applied to TEXT: study the physical and chemical reactions of E.P. additives on heating, by themselves and in admixture with iron powder, to throw light on the reasons for their effectiveness. Of the thermocouples, one was placed in a beaker containing the additive or additive plus pure iron powder, and the other was placed in a beaker containing calcined magnesium oxide, noted for its absence of heating effects the cold thermocouple junctions were in the range investigated; in a Dewar flask of water at 18°C and the direct reading gave the The oil used in testing was absolute specimen temperatures. AC-14 (DS-14) and the additives were ×πορ9Φ-40 (Khloref-40) (butyl ether of trichlormethylphosphonic acid CCl₃PO(OC₄H₉)₂), TXC (GKhS) (hexachlorsulphide [CC13(CH2-CH2)2]2S), Card 1/2

25503 S/065/61/000/007/004/005 E030/E435

 $\pi_{3-6/9}$ (L3-6/9) (ethylene dibutylxanthate (C4H90CS₂-CH₂)₂) chlorinated paraffins (mixtures from C25H51Cl to C25H40C112). All the additives gave endothermic effects on boiling and, where relevant, on melting, either by themselves or on addition of powdered iron (1:2.5 by weight). The butyl ether also gave an exothermic effect on decomposition at 240°C; one at 135°C with iron powder was verified by repeat experiments at lower iron concentrations to be reaction with the iron. Similarly, the hexachlorsulphide reacted with iron at 153°C and the dibutylxanthate at 224 to 238°C. Chlorinated paraffins scarcely react with iron but the iron catalyses their decomposition, reducing the decomposition from 325 to 285°C. temperatures are below those generated during boundary friction All these reaction accompanied by wear, thus confirming the anti-friction properties of the additives. A strong correlation is claimed to exist between the degree of wear reduction and the magnitude of the exothermic effect on reaction with iron powder. There are 6 figures, 2 tables and 2 Soviet references.

ASSOCIATION: VNII NP

Card 2/2

KRAGEL'SKIY, Igor' Viktorovich; VINOGRADOVA, Irina Ernestovna;
VASIL'YEV, I.V., inzh., retsenzent; YEGORKINA, L.I., inzh.,
red.; SMIRNOVA, G.V., tekhn. red.

[Friction coefficients; manual] Koeffitsienty treniia; spravocinoe posobie. Izd.2., perer. i dop. Moskva, Mashgiz, 1962. 217 p. (MIRA 15:7)

S/032/62/028/008/009/014 B104/B102

AUTHORS:

Vinogradova, I. E., and Kulagina, S. S.

TITLE:

Investigation of structural changes in surface layers and estimation of friction temperature

PERICOICAL: Zavodskaya laboratoriya, v. 28, no. 8, 1962, 984 - 986

TEAT: For the metallographic investigation of the surface layers on wearing holes of balls made from 60x6 (ShKh6)steel, these balls were pressed into methacrylate. The metal around a wearing hole was then gradually ground away, examined by microscope and its microhardness determined. The distribution of structural types and the microhardness were recorded graphically and the isotherms of the temperature field associated with the development of the wearing hole were constructed therefrom. The isotherms so obtained deviate somewhat from actuality, since the effect of frictional plastic deformation on the heat set free was not considered. There are 3 figures:

Card 1/2

Investigation of the structural changes ... 8/032/62/028/008/009/014

ASSOCIATION: Vsesoyuznyy nauchno-iseledovatel skiy institut po pererabotke nefti i gaza i polycheniyu iskusstvennogo zhidkogo topliva (All-Union Scientific Research Institute for Oil and Gas Refining and Production of Synthetic Liquid Fuel)

Card 2/2

32397 s/080/62/035/001/009/013 D245/D304

156600

2209

Vinogradova, I. E., and Alekseyeva, Ye. A.

AUTHORS: TITLE:

Study of the stability and reactivity of derivatives of chlorophosphinic acids used as anti-wear additives

in oils

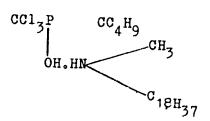
Zhurnal prikladnoy khimii, v.35, no.1, 1962, 176-182 PERIODICAL:

TEXT: The authors used thermographic analysis to study the behavior of chlorophosphinic acid derivatives used as anti-wear additives to gear box oil. Samples were heated to high temperatures slowly with and without addition of powdered Fe. Wear tests were carried out in accordance with GOST 9490-60. It is shown that additional tests were shown that additional tests were carried out in accordance with GOST 9490-60. ditives which impart high anti-wear properties to oil undergo a marked exothermic reaction with Fe when heated in this way. The additive "chlorefamin" showed the most satisfactory anti-wear properties at the temperatures studied and had no corrosive effect. per tree at the temperatures studied and had no confidence effects. It consists of the methyl-octadecylamine salt of butoxytrichlormethyl-phosphinic acid:

Card 1/2

Study of the stability ...

32397 S/080/62/035/001/009/013 D245/D304



This additive does not react with Fe until a temperature of 178°C is reached. (In a gear box, the oil usually reached a maximum temperature of 150°C.) There are 4 figures, 2 tables and 5 Soviet-

SUBMITTED: February 17, 1961

Card 2/2

DEKHTYAR, B.A., inzh.; VINOGRADOVA, I.E., kand.tekhn.nauk

Increasing the wear resistance of cardan shaft hinges. Vest.
mash. 42 no.4:56-58 Ap '62.

(Shafting)

(MIRA 15:4)

THE PROPERTY OF THE PROPERTY O

PHASE I BOOK EXPLOITATION

SOV/6543

Vinogradova, Irina Ernestovna

- Prisadki k maslam dlya snizheniya treniya i iznosa (Oil Additives for Reducing Friction and Wear) Moscow, Gostoptekhizdat, 1963.

 110 p. Errata slip inserted. 3190 copies printed.
- Ed. (Title page): S. E. Kreyn, Doctor of Technical Sciences, Professor; Scientific Ed.: O. M. Yenisherlova; Tech. Ed.: V. V. Voronova.
- PURPOSE: This book is intended for engineers, technicians, and branches of industry.
- COVERAGE: The book covers antifriction, antiwear, and antiseizure additives to lubricants. The book is based on Soviet and foreign literature and includes some new experimental data obtained at the All-Union Scientific Research Institute for Oil and Gas Refining and the Production of Synthetic Liquid Card 1/6 (VNIINP). Part I of the book is devoted to the various

Oil Additives (Cont.)

sov/6543

types of defects and their origins. The main requirements set forth for various additives are also listed in this chapter, which includes a detailed review of the U.S. gear lubricants. Part II covers the classification, properties, preparation, function, selection, and application of additives according to the type of equipment and the working conditions. The effect of various additives on the friction coefficient and surface wear is discussed in Ch. 1 of Part II. Data on 10 Soviet and 35 foreign lubricant additives containing S, P, Cl, and Zn are tabulated. The Soviet additive MDS (alkyl dithio esters of fatty acids) is listed as an effective antiwear additive. Sulfur-treated terpenes are used as multifunctional (antiwear and anticorrosive) additives under the trade name of VTU MNP564-55 (known in the United States as "Stain Add" and "Amoco-48"). Barium and zinc dialkyldiarydithiophosphates (DF-1, DF-11, "vniinp-354", V-501, LZ-317, and others) are the anticorrosive, antiwear motor oil additives widely used in the USSR. The Soviet additive EZ-2 (castor oil treated with P2S5) is described as a

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Oil Additives (Cont.)

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valuable antiwear and antifriction additive. Among others, the following antisciame Soviet additives are listed: LZ-6/9 (ethylene dibutyl xanthate); LZ-24 (ethylene diethyl xanthate); LZ-23 (ethylene dilsopropyl xanthate); and LZ-19 (ethylene diisoamyl xanthate). Among the chlorinated paraffins, the Soviet additive "nami-T-122" (containing 40% Cl) is recommended as an antiscuff additive to gear box lubricants. Soviet additive EZ-5 is listed among the sulfur-chlorinecontaining additive with high antiseizre properties. The use of MoS2 as an antiseizume and antiwear additive to lubricants applied at high temperature and of other metal-containing additives is discussed in Ch. 7 of Part II. The book discusses the function of additives, including the reaction between the additive and a metal under various conditions, surface film formation, stability of the film, and the effect of various substituents in organic phosphorus- and chlorinecontaining additives. A new mechanism of the MoS2 function is proposed, which is based on experimental data obtained by the author in collaboration with Ye. I. Petyakina. Recommenda-

Card 3/6

Oil Additives (Cont.) SOV/6543 tions are given for selecting additives to lubricants for automobiles, turbines, milling equipment, metal-cutting equipment, and textile machinery. Tabulated information on the type of additive recommended for various automobile parts is presented. There are 114 references: 36 Soviet and 78 non-Soviet. TABLE OF CONTENTS: Foreword 3 Requirements for Additives for Improving Friction Conditions 1. Role of antiscizure and antiwear additives to lubricants 5 under various working conditions of a friction couple 2. Classification of additives to lubricants for improving friction conditions, requirements for these additives, and areas of their application 12 Card 4/6

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AVAILABLE: Library of Congress	
SUBJECT: Oil and Gas Industries	4-2-64
Card 6/6	SP/zp/ef
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L 35527-65 EWT(m)/EPF(c)/T Pr-4 DJ

\$/0286/65/000/005/0057/0058

ACCESSION NR: AP5008180

AUTHORS: Mandel'baum, Ya. A.; Mel'nikov, N. N.; Petyakina, Ye. I.; Vinogradova,

I. E.; Pil'menshteyn, I. A.

TIPLE: A method for obtaining an antiabrasion additive for lubricating oils.

Class 23, No. 168828

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 57-58

TOPIC TAGS: abrasion, wear resistance, dialkyl ester, dithiophosphoric acid, dinonyl ester, hexachlorcyclopentadiene

ABSTRACT: This Author Certificate presents a method for obtaining an antiabrasion additive for lubricating oils. The additive is based on dialkyl esters. To improve the quality of the additive, dialkyl esters of dithiophosphoric acid, such as dinonyl ester of dithiophosphoric acid, are subjected to interaction with hexa blorcyclopentadiens.

ATION: none

SUBMITTED: 28Mar62

ENCL: 90

SUB CODE: GC, FP, MT

NO REF SOV: 000

RO REF SOV: 000 Card 1/1 OTHER: OOO

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. 200	ACC NR: AP6030551 (A, //) SOURCE CODE: UR/0413/66/000/016/0031/0031	
	NVIDIOR: Sanin, P. I.; Shepeleva. Ye. S.; Borodach, M. S.; Hyannik, A. G /archavebiy, S. L.; Petyakina, Ye. I.; Vinogradova, I. E.	
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	Class 12, No. 184544 (faunounced by the Institute of Perrochemical Synthesis, AN SSSR (Institut neftekhimicheskop) sinter AN SSSR)	
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] '	where R is an alkyl group and n = 1, 2, 6, 8. To obtain such actives to mineral oils, alkylphosphonic dichlorides are treated with trichloroalkyl alcohols in the presence of an organic base, e.g., pyridine.	
	SUB CODE: 07, 11/ SUBM DATE: 05May65/ ATD PRESS: 5072	
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ITLE: Preparative method for co. 173368	r an anti-wear additive to lubricating oil. Class 23,
OURCE: Byulleten' izobreten	iy i tovarnykh znakov, no. 15, 1965, 68
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	antiwear additive, lubricant additive
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Timil: Dith estatones: suifur-containing stillives to lubritating oils

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 5, 1965, 34-36.

TOPIC TAGS: diathiacyclopentenethione, additive, lubricating oil.

EP agent, antiwear agent/NPT

ABSTRACT: Two 4,5-dithiacyclo-2-pentenethiones with different substituents have been synthesized and tested as lubricating oil additives. The first, 2,3-dimethyl-4,5-dithiacyclo-2-pentenethione proved to have good anciseizing this properties it also the purple salion in the suifur, and quinoline activator at 177C in 74% yield based on charact sulfur. Tests in TS-14,5 oil showed that NPT is one of the most effective antiseizing sulfur-containing additives over tested. For le

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L 44173-65 ACCESSION NR: AP5011688 NPT caused greater wear than the LZ-6/9 additive at low loads, this drawback could be considerably alleviated by using NPT in conjunction with antiwear additives such as zin. ((1) inhambate, NET exhibited high thermal stability as it for not decompose in the presence of the absence of metal powders or react with them at 20-3000. NPT was also an antioxidatant (in MK-8 oil), but a less effective one than ional. NPT passed copper corrosion tests at 1900. It was concluded that NPT is a suitable difunctional (antiselzing and antiwear) additive to lubricating oils and its production was recommended. Trig. art. has: (SM) 2 tables, and 5 formulas. ASSOCIATION: MGU im. M. V. Lomonosova; VNII NP SUB CODE: FP ENCL: 00 SUBMITTED: ATD FRESS: 3241 OTHER: 004 NO REF SOV: 002 @ 50 Card 2/2

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859920018-8

4-173-65 RPF(0...BAT B...P Pr-- N ACCESSION NRT APSOLVERS UR 0365,65/000/005/0034-0036 AUTHOR: Burtseva, T. A.; Vinogradova, I. E.; Plate, A. F.; Danilove, T. A. TITLE: Dithia-thiones: sulfur-containing additives to lubricating oils SOURCE: Khimiya i tekhnologiya topliv i masel, no. 5, 1965, 34-36 TOPIC TAGS: diathiacyclopentenethione, additive, lubricating oil. EP agent, antiwear agent/NPT ABSTRACT: Two 4.5-dithiacyclo-2-pentenethiones with different substituents have been synthesized and tested as lubricating oil additives. The first, 2.3-dimethyl-4,5-dithiacyclo-2-pentenethione proved to have good antiseizing (EP) properties but also to be pourly soluble in petroleum oils. The second, 2-neopentyl-3-terr-butyl-4,5-dithioc 2-pentenethione, designated NOT, was precalled from trills butto be sulfur, and quincitoe autivate at 100 to 0.5 wind case too. I a sulfur. Tests in TS-14.5 oil showed that MPF is one of the most leffective antiseizing sulfur-containing additives ever tested. Thile Card 1/2

L 44173-65 ACCESSION NR: AP5011688 NPT caused greater wear than the LZ-6/9 additive at low loads, this drawback could be considerably alleviated by using NPT in conjunction with antiwear additives such as zinc dithiophosphate. NPT exhibited high thermal stability as it did not decompose in the presence or the absence of metal powders or react with them at 20-300C. NPT was also an antioxidatant (in MK-8 oil), but a less effective one than ionol. NPT passed copper corrosion tests at 100C. It was concluded that NPT is a suitable difunctional (antiseizing and antiwear) edditive to lubricating oils and its production was recommended. Orig. art. has: 2 tables, and 5 formulas. VNII NP ASSOCIATION: MGU im. M. V. Lomonosova; ENCL: 00 SUB CODE: FP SUBMITTED: 00 OTHERI 004 ATD PRESS: 3241 NO REF SOV: 002 B 36 Card 2/2

KHALIKOV, R.Kh.; VINOGRADOVA, I.E.

Metal reaction with organic sulfur compounds. Khim. i tekh.topl.
(MIRA 17:4)

i masel 9 no.2:63-67 P '64.

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ACCESSION NR: AP4014973

S/0065/64/000/002/0063/0067

AUTHORS: Khalikov, R. Kh.; Vinogradova, I.E.

TITLE: Reaction of metals with organic sulfur compounds

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 2, 1964, 63-67

TOPIC TAGS: dixanthogenate, stability, metal reactivity, organic sulfur compound, ethylene xanthate, xanthogen, thermal decomposition, corrosiveness, antiseize property, transmission oil additive

ABSTRACT: The stability and the reactivity with metals or two types of dixanthogenate compounds were investigated: 1) the xanthogens diisopropyl, dibutyl, diamyl and dinonyl; and 2) the ethylene xanthates-diisopropyl and diisobutyl. Thermal decomposition (20-300C investigated) of the dixanthogenates produced the more simple sulfur-containing compounds--hydrogen sulfide, elemental sulfur, mercaptan, dialkylsulfide, dialkyldisulfide and xanthic acid. The corrosiveness and the antiseize properties of the sulfur-

Card 1/2

ACCESSION NR: AP4014973

containing compounds depends on the amount of hydrogen sulfide produced. The xanthogens show higher antiseize properties and greater corrosive aggressiveness toward copper alloys than the ethylene xanthates. In both types of compounds increasing the length of the radical lowers the antiseize properties and increases the stability. Since the stability of the xanthogens is considerably less than that of the ethylene xanthates, they are not recommended as additives to automobile transmission oils. Orig. art. has: 3 tables and 3 rigures.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: MA, FL

NO REF SOV: 000

OTHER: 000

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KHALIKOV, R.Kh.; VINOGRADOVA, I.E.

Stability and reactivity of some xanthogens used as extremepressure additives. Zhur. prikl. khim. 36 no.12:2691-2696 D '63. (MIRA 17:2)

VINOGRADOVA, I.E.; PETYAKINA, Ye.I.; KARAMNOVA, V.P.

Optimum concentration of sulfur and chlorine components in some sulfur-chlorine antiseizing additivies to lubricating oils. Tren.i izn.mash. no.15:478-485 '62. (MIRA 15:4) (Lubrication and lubricants—Testing)

S/194/61/000/010/005/082 D256/D301

AUTHOR:

Novopashennyy, G.N. and Vinogradova, I.G.

TITLE:

Fully transistorized voltmeter

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 12, abstract 10 A94 (Nauchno-tekhn. inform. byul. Leningr. politekhn. in-t, 1960, no. 8,

96-97)

TEXT: The circuit diagram and a brief description are presented of a transistorized voltmeter devised for a.c. voltage measurements in the range from 10 mV (full scale) to 300 V (10 ranges), its characteristics (range of frequencies and input impedance) corresponding to the 10 9 (L-V 9)-type vacuum-tube voltmeter. The voltmeter comprises a total of 6 semiconductor devices and consists basically of the following elements: 1) Input attentuator; 2) input basically of the following elements: 1) Input attentuator; 5) single-stage; 3) voltage amplifier; 4) output emitter-follower; 5) single-wave semiconductor-diode rectifier. The input stage consists of

Card 1/2

Fully transistorized voltmeter

S/194/61/000/010/005/082 D256/D301

two emitter-followers connected in series in order to obtain at low frequencies a high input impedance of the order of 2 Mohm. The 2 x 10⁵ voltage amplifier includes 3 stages with a common emitter and a strong negative feedback. 3 references. Abstracter's note: Complete translation.

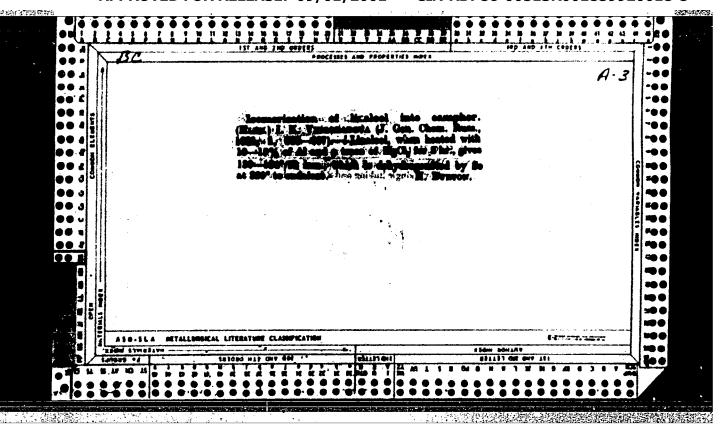
Card 2/2

VINOGRADOVA, I. I., Eng.

Coal Handling

Experience with storing coal in trenches. Za ekon. top., 9, No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952, UNCLASSIFIED.



LOBACHEV, S.V., doktor med.nauk; VINOGRADOVA, I.I., kand.med.nauk

Perforating ulcers of the stomach and duodenum in clinical emergency surgery. Vest.khir. no.10:92-97 '61. (MIRA 14:10)

TO THE PROPERTY OF THE PROPERT

1. Iz khirurgicheskoy kliniki (zav. - prof. S.V. Lobachev) Moder-skogo gorodskogo ordena Trudovogo Krasnogo Znameni nauchno-issledo-vatel'skogo instituta skoroy pomoshchi im. N.V. Sklifosovskogo (dir. - zasluzh. vrach USSR M.M. Tarasov).

(PEPTIC ULCER)

VINOGRADOVA, I.L.; MURAZYAN, R.I.; SAFAROVA, A.A.

Dynamics of electrolyte disorders in the burn disease. Probl. gemat. 1 perel. krovi 9 no.9:15-18 S '64. (MIRA 18:7)

1. TSentral'nyy ordena Lenina institut gematologii i perelivaniya krovi (direktor - dotsent A.Ye.Kiselev) Minister::tva zdravo-okhraneniya SSSR, Moskva.

一分位的原理的 景語氏性系统 医过程性神经衰竭 医结结

AGRANENKO, V. A.; VINOGRADOVA, I. L.

Normalization of electrolyte metabolism under the influence of hemodialysis and conservative treatment of acute renal insifficiency. Probl. gemat. i perel. krovi no.4:37-43 '62. (MIRA 15:4)

1. Iz pochechnogo tsentra (zav. V. A. Agranenko) TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - dotsent A. Ye. Kiselev) Ministerstva zdravockhraneniya SSSR.

(RENAL INSUFFICIENCY) (KIDNEYS, ARTIFICÍAL)
(ELECTROLYTE METABOLISM)

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CHAZOV, Ye.I.; ANDREYENKO, G.V.; SPEKTOROVA, Z.G.; RAYEVSKAYA, V.V.;
MOISEYEV, S.G.; BABSKIY, Ye.B.; BREDIKIS, Yu.I.; KUSHKIY,R.O.;
KALITEYEVSKAYA, V.F.; BEREZOV, Ye.; POKROVSKIY, A.V.; MEL'NIK,
I.Z.; AGRAHENKO, V.A.; VINOGRADOVA, I.L.; SKACHILOVA, N.N.;
VIKHERT, A.M.; ZAMYSLOVA, K.N., prof.; SOKOLOVSKIY, V.P., prof.;
BEYUL, Ye.A., kand.med.nauk; SOLOV'YEV, V.V.

Minutes of the meetings of the Moscow Society of Therapeutists. Terap.arkh. 35 no.1:112-118 Ja'63. (MIRA 16:9) (THERAPEUTICS—ABSTRACTS)

AGRANENKO, V.A., kand. med. nauk; VINOGRADOVA, I.L., kand. med. nauk (Moskva)

Disorders of water metabolism in acute renal insufficiency. Rlin. med. 41 no.6:85-93 Je 163. (MIRA 17:1)

1. Iz pochechnogo tsentra (zav. - kand. med. nauk V.A. Agranenko) TSentral'nogo ordena Lenina instituta gematologii 1 perelivaniya krovi (dir. - dotsent A.Ye. Kiselev).

GROZDOV, D.M.; VINOGRADOVA, I.L.

Application of serum in conjunction with vitamin K. Klin.med.,
Moskva 29 no.3:68-70 Mar 51. (CIML 20:7)

1. Of the Laboratory for Blood Substitutes (Head--D.M. Grozdov), Central Order of Lenin Institute of Hematology and Blood Transfusion of the Ministry of Public Health USSR (Director--Prof. A.A. Bagdasarov, Corresponding Member of the Academy of Sciences USSR).

AGRANENKO, V.A.; VINOGRADOVA, I.L.

Dynamics of azotemia under the influence of a hemodialysis procedure in acute renal insufficiency caused by incompatible blood transfusion. Probl. gemat. i perel. krovi no.10:49-55 162.

(MIRA 17:12)

1. Iz pochechnogo tsentra (zav. V.A. Agranenko) TSentral'nogo ordena Lenina Instituta gematologii i perelivaniya krovi (direktor - dotsent A.Ye. Kiselev).

VINCOPADOVA, I. H.

"Utilization of the Proteolytic Enzymes of Mold Fungus From the Genus of Aspergillus and Proteases of Oat Malt for Preparing Feeding Media." Thesis for degree of Can.d Biological Sci. Sub 16 Feb 50, Acad Med Sci USSR

Summary 71, 4 Sep 52, <u>Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950.</u> From Vechernyaya Moskva, Jan-Dec 1950.

THOSEADOPA, T. N.		1		PA 239Tho	
	cultivation of Aspergillus tfavorable conditions for the teolytic enzymes is described	"Mikrobiol" Vol 21, No 6, p During World War II, at the shkov, work on the prepn of from proteins by using prot from Aspergillus fungi was named inst. In the present	"A New Method of Obtainin Enzymes From the Mold Fun I. N. Vinogradova, I. P. J Last Epidem and Microbiol Med Sci USSR	USSR/Medicine - Mutrient	
239740	is terricola under the the development of pro- ribed in detail.	p 692-699 suggestion of M. A bacteriol nutrient eolytic enzymes derlaunched at the abinstance, work on 1239740	g Highly Active gus Asperigillus Platoneva, V. A. imeni N. F. Gan	Media Nov/Dec	
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CIA-RDP86-00513R001859920018-8

VINCERTHOUTH, TIERS

USSR / Microbiology. Technical Microbiology.

F-3

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21875

Author : Vinogradova, I.N.

Inst

Title : The Utilization of Proteolytic Enzymes of Mold Fungi in Pre-

paration of Mutritive Media for Submerged Cultivation..

Orig Pub: V.sb.: Nauch. osnovi proiz-va baktsin i sivorotok, M., 1955,

83-87

Abstract: Information is given on successful utilization of Aspergillus terricola, grown on bran, as a "preparation" of nantalistic

terricola, grown on bran, as a "preparation" of proteolytic enzymes adapted for degrading beef protein, casein and fish meal in preparing large quantities of nutrient media. The nutrient media prepared with the above mentioned hydrolysates were useful in the production of dysentery bacteriophage, vaccines against intestinal diseases and tularemia, and also

toxins.

Card : 1/1

-19-

MUROMTSEV, S.N.; KOLYADITSKAYA, L.S.; VINOGRADOVA, I.N.

Results of using aeraied deep cultivation for the production of brucellosis vaccine. Zhur.mikrobiol.epid.i immun. 30 no.10:76-78 0 '59.

(MIRA 13:2)

CONTRACTOR NEW TO THE WATER OF THE PROPERTY OF

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

(BRUCKLIOSIS immunol.)

(VACCINES)

BLASOVA, Ye.V.; VINOGRADOVA, I.N.; PAIKINA, N.A.

Obtaining the toxoid of Cl. osdematiens on nutritive media from the hydrolysate of casein and the study of its antigenic and immunogenic properties. Zhur.mikrobiol.epid.i immun. 31 no.2: 108-114 r 160. (MIRA 13:6)

1. Is Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

(CLOSTRIDIUM immunol.)

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JINOGRADOVA, J.N.

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AUTHORS: Zhukov-Verezhnikov, N.N., Mayskiy, I.N.,
Yazdovskiy, V.I., Pekhov, A.P., Gyurdzhian, A.A.
Nefed'yeva, N.P., Kapichnikov, M.M., Pedoplelov, I.I.,
Rybakov, N.I., Klemparskaya, N.N., Klimov, V.Yu.,
Novikov, S.N., Novikova, I.S., Petrov, R.V.,
Sushko, N.G., Ugryumov, Ye.P., Fedorova, G.I.,
Zakharov, A.F., Vinogradova, I.N., Chamova, K.G.
and Buyko, Ye.A.

TITLE: The results of the first microbiological and
cytological experiments in Space in Earth satellites

SOURCE: Akademiya nauk SSSR. Iskusstvennyye sputniki Zemli.

no. 11. Moscow, 1961. Rezul'taty nauchnykh issledovaniy, provedennykh vo vremya poletov vtorogo i tret'yego kosmicheskikh korabley-sputnikov, 44 - 67
TEXT: The authors report the results of their investigations

of biological objects which had been exposed to space conditions in satellite vehicles. The first part of the work was devoted to a study of the survival of cells of differing levels of arganization under the influence of radiation and other

11

S/560/61/000/011/007/012 E027/E635

The results of the ---

unfavourable factors, in comparison with control materials which remained in the laboratory over the same period. In experiments with bacteria 2ml. samples of suspensions of Escherichia coli. Aerobacter aerogenes, Staphylococcus aureus and Clostridium butyricum containing 500 million organisms or spores per ml. were senled in ampoules, and exposed to a space flight of unstated duration; the number of viable individuals after the exposure did not differ significantly from the values for the control samples. A similar experiment was carried out with the T2 phage of E. coli and the 1321 phage of A. aerogenes, which were sent in the second satellite; again, no sigificant reduction in the titre of the phage preparations could be detected after return from space. Similar results were obtained with preparations of phage sent into space in the fourth and fifth satellites. Two bottles and six tubes of HeLa cells, some of which were saturated with expense exposed to space flight

Card 2/5

11 _

s/560/61/000/011/007/012 E027/E635

The results of the . ..

conditions, after it had first been shown that vibration and acceleration did not detach the cells from the glass. The cultures without oxygen appeared normal on return, whereas in those exposed to oxygen most of the cells had degenerated. Subculture showed that \$0% of the cells, whether detached from or remaining on the glass, were dead; however, two tubes gave good growth, and the cells which grew up showed no abnormalities of morphology. No antigenic differences could be detected in the cells in anaphylaxis and desensitization experiments in guineapigs. In subsequent space flights fibroblast and human amnion cell cultures were suided, with similar results. Pieces of human and rabbit skin were also used. On August 12th 1960 two pieces of skin 2.5 x 3.5 cm. in size and 0.5 mm. thick were taken from a human donor, placed in Hanks solution and sent into space in the second satellite. On recovery they were regrafted on the original site in the donor and became firmly attached after seven days.

The results of the ---

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Similar results were obtained with two other donors. An apparatus was devised for making a subculture in space, in order to study the ability of bacteria to multiply under space conditions. In experiments with Glostridium butylicum no déviations from the controls were observed. The second part of the work was devoted to a study of possible genetic effects brought about by exposure to space conditions, mainly by looking for the production of auxotrophic mutants and lysogeny in bacteria. The former were detected by inoculation on a layer of minimal medium which was then covered with an overlay of the same medium in order to fix the colonies. When the latter had grown up their position was noted and an overlay of complete medium was then put on, and the colonies which then grew up as a result of the diffusion of essentialnutrients were selected as suxotrophic mutants. No such mutants could be found in suspensions of Escherichia coli recovered from the second satellite. The experiments on the

induction of lysogenic baceria were carried out on a strain of E. coli lysogenized by a λ phage which had been exposed to cosmic

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radiation in the fifth satellite. Free phase particles were removed by adding phase antiserum; after the end of the latent period the action of the antiserum was cut short by diluting 1:100, streptomycin was added to inhibit the host organisms, and the mixture was plated out on the indicator strain in order to count the phase particles produced. The results obtained, considered in comparison with control experiments, provided no evidence of induction by cosmic radiation during a space flight of ninety minutes. No difference was observed in the plaque morphology. No changes could be detected in the chemical and physical properties of calf thymus decorribonucleic acid recovered after a space flight. The results as a whole indicate that no damage was suffered by isolated cells during a brief exposure to space conditions. There are 6 figures and 10 tables.

SUBMITTED: May 23, 1961

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CONTRACTOR ACCOUNTS AND ACCOUNT

BUCROVA, V.I., kand. med. nauk; VINOGRADOVA, I.N., kand.biol. nauk; D'YAKOV, S.I., kand. med. nauk; ZHDANOV, V.M., prof.; ZHUKOV-VEREZHNIKOV, N.H., prof.; ZEMISOVA, O.M., kand. med. nauk; IMSHENETSKIY, A.A., prof.; KALINA, G.P., prof.; KAULEN, D.R., kand. med. nauk; KOVALEVA, A.I., doktor med. nauk; KRASIL'NIKOV, N.A., prof.; KUDLAY, D.G., doktor biol. nauk; LEBEDEVA, M.N., prof.; PERETS, L.G., prof. [deceased]; PEKHOV, A.P., doktor biol. nauk; PLANEL'YES, Kh.Kh., prof.; POGLAZÓVA, M.N., kand. biol. nauk; PROZOROV, A.A.; SINITSKÍY, A.A., prof.; FEDOROV, M.V., prof. [deceased]; SHANINA-VAGINA, V.I., kand.biol. nauk; VYGODCHIKOV, G.V., prof., zamestitel! otv. red.; ADO, A.D., prof., red.; BAROYAN, O.A., prof., red.; BILIBIN, A.F., prof., red.; BOLDYREV, T.Ye., prof., red.; VASHKOV, V.I., doktor med. nauk, red.; VYAZOV, O.Ye., doktor med. nauk, red.; GAUZE, G.F., prof., red.; GOSTEV, V.S., prof., red.; GORIZONTOV, P.D., prof., red.; CRINBAUM, F.T., prof., red. [deceased]; GROMASHEVSKIY, L.V., prof., red.; YELKIN, I.I., prof., red.; ZASUKHIN, L.N., doktor biol. nauk, red.; ZDRODOVSKIY, P.F., prof., red.; KAPICHNIKOV, M.M., kand. med. nauk, red.; KLEMPARSKAYA, N.N., prof., red.; KOSYAKOV, P.N., prof., red.; LOZOVSKAYA, Ye.S., kand. med. nauk, red.; MAYSKIY, I.N., prof., red.; MUROMTSEV, S.N., prof., red. [deceased]; (Continued on next car (Continued on next card)

BUGROVA, V.I.——(continued) Card 2.

NIKITIN, M.Ya., red.; NIKOLAYEVA, T.A., red.; PAVLOVSKIY, Ye.N., akademik, red.; PASTUKHOV, A.P., kand. med. nauk, red.; PETRISHCHEVA, P.A., prof., red.; POKROVSKAYA, M.P., prof., red.; POPOV, I.S., kand. med..nauk, red.; ROGOZIN, I.I., prof. red.; RUDNEV, G.P., prof., red.; SERGIYEV, P.G., prof., red.; SKRYABIN, K.I., akad., red.; SOKOLOV, M.I., prof. red.; SOLOV'YEV, V.D., prof., red.; TRIBULEV, G.P., dotsent, red.; CHUMAKOV, M.P., prof., red.; SHATROV, I.I., prof., red.; TIMAKOV, V.D., prof., red.; TROITSKIY, V.L., prof., red. toma; PETROVA, N.K., tekhn.red.;

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(Continued on next card)

BUGROVA, V.I.—(continued) Card 3.

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and Sera of the Ministry of Public Health of Author

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Orig Pub: Materialy po obmenu opytom. Gl. upr. in-tov vaktsin i syvorotok M-va zdravookhr. 3.5SR, Tit la

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(HMART, blood supply
thromboembolism, caused by surg. of spinal cord)
(ARTERIES, PULMONARY, dis.
same)
(SPINAL CORD, surg.
causing thromboembolism of heart & pulm. arteries)

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ZHUKOV-VEREZHNIKOV, N.N.; MAYSKIY, I.N.; YAZDOVSKIY, V.I.; PEKHOV, A.F.;
CYURDZIAN, A.A.; HEFED YEVA, N.P.; KAPICHNIKOV, M.M.; PODOFLELV,
I.I.; RYBAKOV, N.I.; ELEMPARSKAYA, N.N.; KLIKOV, V.Yu.; NOVIKOV,
S.N.; NOVIKOVA, I.S.; FETROV, R.V.; SUSHKO, N.G.; UGRYUMOV, Ye.P.;
FEDOROVA, G.I.; ZAKHAROV, A.F.; VINOGRADOVA, I.N.; CHAPOVA, K.G.;
EUYKO, Ye.A.

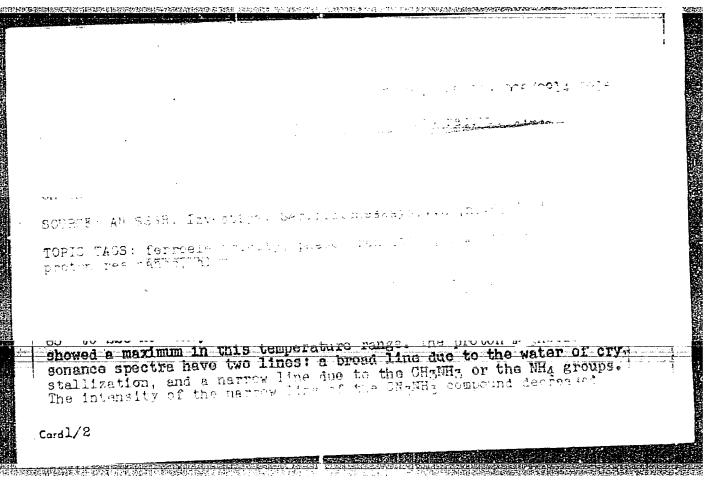
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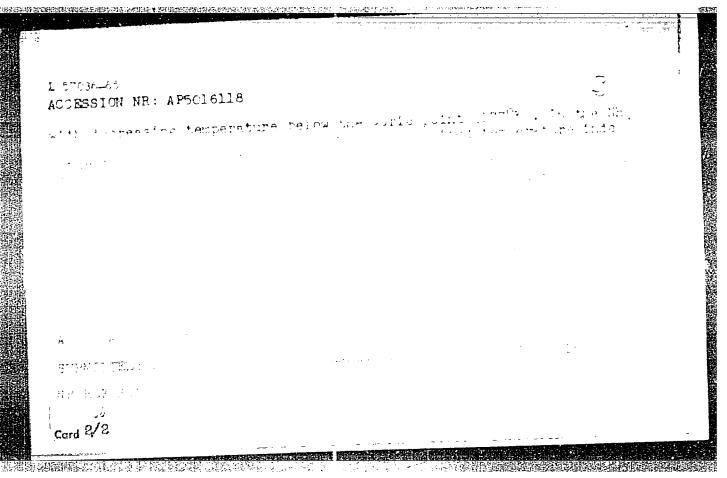
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